

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	0	jonas near hogstrom.in.	US-PGPUB; USPAT	OR	ON	2007/01/10 07:55
S2	0	anders near ivner.in.	US-PGPUB; USPAT	OR	ON	2007/01/10 07:55
S3	0	jan near norden.in.	US-PGPUB; USPAT	OR	ON	2007/01/10 07:55
S4	125	borland.as.	US-PGPUB; USPAT	OR	ON	2007/01/10 07:55
S5	4	S4 and (model\$4 and code and compil\$4).clm.	US-PGPUB; USPAT	OR	ON	2007/01/10 07:56
S6	59	("6018627" "6038393" "6170081" "6199195" "6253366" "6292932" "6330527" "6330569" "6381743" "6405361" "6408311" "6415275" "6560769" "6684386" "6694508" "6701517" "6711734" "6711735" "6804686" "6807583" "6874146" "6907564" "6917937" "6986120" "7035860" "7043481" "7047518").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/10 08:05
S7	2376	717/104-113.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/10 10:23
S8	240	S7 and ("unified modeling language" or uml)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/11 07:38
S9	127	S8 and compil\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/10 10:23
S10	101	S9 and (@pd<"20040203" or @ad<"20040203" or @prad<"20040203" or @rlad<"20040203")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/10 11:13

## EAST Search History

S11	3704	"unified modeling language" or uml	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/10 11:11
S12	882	S11 and compil\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/10 11:11
S13	400	S12 and (source adj code)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/10 11:12
S14	319	S13 and java	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/10 11:12
S15	235	S14 and (instrospect\$4 or reflect\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/10 11:13
S16	195	S15 and (run-time or runtime)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/10 11:13
S17	154	S16 and object and framework	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/10 11:13
S18	150	S17 and (@pd<"20040203" or @ad<"20040203" or @prad<"20040203" or @rlad<"20040203")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/10 13:46

## EAST Search History

S19	1	wo-200014629-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/10 13:08
S20	1	("6269473").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/10 13:25
S21	98	("20050071801" "20050071803" "20050071805" "20030131339" "20050060685" "6018627" "6038393" "6742175" "7047518" "20020019971" "20020091990" "20020108099" "20020147763" "20040236766" "20050177817" "20050198618" "20060101385" "20060101386" "20060101387" "6505342" "7000219" "20020104068" "20040107414" "6560769" "7096454" "7124060" "20030083900" "20040015834" "20040060037" "20040153992" "20050097453" "20050149868" "5689708" "4589065" "5295222" "5854929" "5870590" "6038378" "6049673" "5504862" "5778227" "5835768" "5850548" "6073124" "6151621" "6161148" "6195676" "6253193" "6263302" "6272672" ). pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/10 13:35
S22	19935	reflect\$4 with model\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/10 13:45
S23	1200	S22 and java	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/10 13:45
S24	203	S23 and S11	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/10 13:45

## EAST Search History

S25	148	S24 and compil\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/10 13:45
S26	137	S25 and (@pd<"20040203" or @ad<"20040203" or @prad<"20040203" or @rlad<"20040203")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/10 13:51
S27	721	reflect\$4 with java	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/10 13:51
S28	119	S27 and S11	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/10 13:51
S29	78	S28 and compil\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/10 13:51
S30	76	S29 and (@pd<"20040203" or @ad<"20040203" or @prad<"20040203" or @rlad<"20040203")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/10 13:51
S31	23	(US-20050071805-\$ or US-20050071803-\$ or US-20030115571-\$ or US-20020104068-\$).did. or (US-6804686-\$ or US-7047518-\$ or US-6874146-\$ or US-6711735-\$ or US-6711734-\$ or US-6701517-\$ or US-6694508-\$ or US-6684386-\$ or US-6560769-\$ or US-6381743-\$ or US-6330527-\$ or US-6292932-\$ or US-6199195-\$ or US-6038393-\$ or US-6018627-\$ or US-7000219-\$ or US-6851107-\$ or US-6701381-\$ or US-6269473-\$).did.	US-PGPUB; USPAT	OR	ON	2007/01/10 13:56

## EAST Search History

S32	0	S31 and reflection	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/10 13:57
S33	4	"6701383".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/10 14:01
S34	24	(US-20050071805-\$ or US-20050071803-\$ or US-20030115571-\$ or US-20020104068-\$ or US-20020184401-\$).did. or (US-6804686-\$ or US-7047518-\$ or US-6874146-\$ or US-6711735-\$ or US-6711734-\$ or US-6701517-\$ or US-6694508-\$ or US-6684386-\$ or US-6560769-\$ or US-6381743-\$ or US-6330527-\$ or US-6292932-\$ or US-6199195-\$ or US-6038393-\$ or US-6018627-\$ or US-7000219-\$ or US-6851107-\$ or US-6701381-\$ or US-6269473-\$).did.	US-PGPUB; USPAT	OR	ON	2007/01/10 14:21
S36	440	(reflection with java) and (graph\$4 or tree or table)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/10 16:39
S37	26	(reflection with java) with (graph\$4 or tree or table)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/10 16:50
S38	109	S36 and ("unified modeling language" or uml)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/10 16:42
S41	95	(reflection with java) and ((graph\$4 or tree or table) near3 node)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/10 16:50

## EAST Search History

S42	1	("6633889").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/10 16:56
S43	1	"20040044989".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/10 16:56
S44	141	reflection and java and ("unified modeling language" or uml)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/10 17:00
S45	129	S44 and graph\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/10 17:00
S46	155	reflection with ((generat\$4 or creat\$4 or implement\$4 or develop\$4) near3 (graph or chart or table))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/11 07:10
S48	1	S46 and java	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/11 07:10
S49	494	java with reflection	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/11 07:13
S50	208	S49 and (graph or chart or table) and (span\$5 or travers\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/11 07:14
S51	81	S50 and ("unified modeling language" or uml)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/11 07:14

## EAST Search History

S52	927	travers\$4 with (depth-first or breadth-first or ad-hoc)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/11 07:37
S53	163	S52 and (travers\$4 near3 graph)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/11 07:38
S54	4	S53 and ("unified modeling language" or uml)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/11 13:34
S55	31	(US-20050071803-\$ or US-20030115571-\$ or US-20020104068-\$ or US-20050071805-\$ or US-20020184401-\$ or US-20030014421-\$ or US-20020149604-\$ or US-20040044989-\$).did. or (US-7047518-\$ or US-6874146-\$ or US-6804686-\$ or US-6711735-\$ or US-6711734-\$ or US-6701517-\$ or US-6694508-\$ or US-6684386-\$ or US-6560769-\$ or US-6292932-\$ or US-6381743-\$ or US-6330527-\$ or US-6038393-\$ or US-6199195-\$ or US-6018627-\$ or US-6851107-\$ or US-6701381-\$ or US-7000219-\$ or US-6269473-\$ or US-7103600-\$ or US-6492989-\$ or US-6011918-\$ or US-6292933-\$).did.	US-PGPUB; USPAT	OR	ON	2007/01/11 07:46
S56	13	S55 and graph	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/11 07:46

## EAST Search History

S57	59	("6018627" "6038393" "6170081" "6199195" "6253366" "6292932" "6330527" "6330569" "6381743" "6405361" "6408311" "6415275" "6560769" "6684386" "6694508" "6701517" "6711734" "6711735" "6804686" "6807583" "6874146" "6907564" "6917937" "6986120" "7035860" "7043481" "7047518").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/11 09:26
S58	42	S57 and ("unified language package" or uml)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/11 09:27
S59	22	S58 and package	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/11 09:27
S60	5	S57 and ((parent adj class) or superclass)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/11 11:22
S61	6	("6199195"   "6237135"   "6247020"   "6321378"   "6681383"   "6718218").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/11 13:33
S62	3220	(parent adj class) or superclass	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/11 13:33
S63	353	S62 and ("unified modeling language" or uml)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/11 13:34
S65	226	S63 and ((common or "same") near3 class)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/11 13:38



## EAST Search History

S66	72	S63 and ((common or "same") near3 ((parent adj class) or superclass))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/11 13:38
S67	599	(source adj code) and ("unified modeling language" or uml)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/11 14:28
S68	298	S67 and ((generat\$4 or creat\$4 or develo\$4 or implement\$4) near3 (source adj code))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/11 14:28

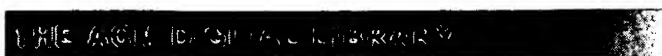


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Relevance scale ☐ ☐ ☐ ☐ ☐21 [Web-enabled simulation technologies: web-enabled government/defense](#)[applications: Parallel discrete event simulation of space shuttle operations](#)

Luis Rabelo, Jose Sepulveda, Mario Marin, Amith Paruchuri, Amit Wasadikar, Karthik Nayaranan

December 2004 **Proceedings of the 36th conference on Winter simulation WSC '04****Publisher:** Winter Simulation ConferenceFull text available: pdf(588.38 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper describes the application of parallel simulation techniques to represent structured functional parallelism present within the Space Shuttle Operations Flow, utilizing the Synchronous Parallel Environment for Emulation and Discrete-Event Simulation (SPEEDES), an object-oriented multicomputing architecture. SPEEDES is a unified parallel simulation environment, which allocates events over multiple processors to get simulation speed up. Its optimistic processing capability minimizes simul ...

22 [Experience in using business scenarios to assess COTS components in integrated solutions](#)

Sharon Lymer, WenQian Liu, Steve Easterbrook

October 2005 **Proceedings of the 2005 conference of the Centre for Advanced Studies on Collaborative research CASCON '05****Publisher:** IBM PressFull text available: pdf(2.99 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Constructing software by integrating commercial off-the-shelf (COTS) components is widely practised, particularly in the IT service industry. For vendors of COTS components, requirements engineering is particularly challenging. To continually improve their products, vendors must identify and analyze problems that occur when their components are used in a wide variety of integrated solutions, and they must anticipate new applications in which their components could be used. In this paper, we desc ...

**Keywords:** business scenario, commercial-off-the-shelf (COTS), software integration23 [Hardware & systems: Extending the scene graph with a dataflow visualization system](#)

Michael Kalkusch, Dieter Schmalstieg

November 2006 **Proceedings of the ACM symposium on Virtual reality software and technology VRST '06****Publisher:** ACM PressFull text available: pdf(10.66 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Data ow graphs are a very successful paradigm in scientific visualization, while scene graphs are a leading approach in interactive graphics and virtual reality. Both approaches

have their distinct advantages, and both build on a common set of basic techniques based on graph data structures. However, despite these similarities, no unified implementation of the two paradigms exists. This paper presents an in-depth analysis of the architectural components of dataflow visualization and scene graphs ...

**Keywords:** dataflow visualization system, object hierarchies, scene graph, visualization

## 24 An alternative time management mechanism for distributed simulations



Wentong Cai, Stephen J. Turner, Bu-Sung Lee, Junlan Zhou

April 2005 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 15 Issue 2

**Publisher:** ACM Press

Full text available: pdf(541.08 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Over the past few years, there has been a keen interest in the management of time in distributed simulation environments. Previous emphasis in time management (TM) services has been based on time stamp ordering, which is both computation and bandwidth intensive. This article discusses an alternative approach to time management based on causal ordering. Traditional causal ordering protocols incur a large amount of communication overhead, which is generally of the order of  $N^2$  for ...

**Keywords:** Distributed simulation, causal order, high level architecture, time management

## 25 An object oriented design method for reconfigurable computing systems



Martyn Edwards, Peter Green

January 2000 **Proceedings of the conference on Design, automation and test in Europe DATE '00**

**Publisher:** ACM Press

Full text available: pdf(186.54 KB)

Additional Information: [full citation](#), [references](#), [index terms](#)



[Publisher Site](#)

## 26 The architecture of a UML virtual machine



Dirk Riehle, Steven Fraleigh, Dirk Bucka-Lassen, Nosa Omorogbe

October 2001 **ACM SIGPLAN Notices , Proceedings of the 16th ACM SIGPLAN conference on Object oriented programming, systems, languages, and applications OOPSLA '01**, Volume 36 Issue 11

**Publisher:** ACM Press

Full text available: pdf(180.24 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Current software development tools let developers model a software system and generate program code from the models to run the system. However, generating code and installing a non-trivial system induces a time delay between changing the model and executing it that makes rapid model prototyping awkward if not impossible. This paper presents the architecture of a virtual machine for UML that interprets UML models without any intermediate code-generation step. The paper shows how to embed UML in a ...

## 27 Modeling components and frameworks with UML



Cris Kobryn

October 2000 **Communications of the ACM**, Volume 43 Issue 10

**Publisher:** ACM Press

Full text available: pdf(226.29 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



[html\(35.10 KB\)](#)

## 28 Transforming Structural Model to Runtime Model of Embedded Software with Real-Time Constraints

Sharath Kodase, Shige Wang, Kang G. Shin

March 2003 **Proceedings of the conference on Design, Automation and Test in Europe: Designers' Forum - Volume 2 DATE '03**

**Publisher:** IEEE Computer Society

Full text available:  [pdf\(128.26 KB\)](#)

 [Publisher Site](#)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The model-based methodology has proven to be effective for fast and low-cost development of embedded software. In the model-based development process, transforming a software structural model that describes the underlying application, to an implementable runtime model is a critical issue. Since the designed software will finally run on the target platform, non-functional issues like schedulability, timing constraints and resource requirements have to be considered during the transformation. In th ...

## 29 System level performance analysis: Formal performance analysis and simulation of UML/SysML models for ESL design

Alexander Viehl, Timo Schönwald, Oliver Bringmann, Wolfgang Rosenstiel

March 2006 **Proceedings of the conference on Design, automation and test in Europe: Proceedings DATE '06**

**Publisher:** European Design and Automation Association

Full text available:  [pdf\(223.97 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

UML2 and SysML try to adopt techniques known from software development to systems engineering. However, the focus has been put on modeling aspects until now and quantitative performance analysis is not adequately taken into account in early design stages of the system. In this paper, we present our approach for formal and simulation based performance analysis of systems specified with UML2/SysML. The basis of our analysis approach is the detection of communication that synchronize the control fl ...

## 30 Technical papers: software maintenance: Reporting about industrial strength software engineering courses for undergraduates

Matthias Gehrke, Holger Giese, Ulrich A. Nickel, Jörg Niere, Matthias Tichy, Jörg P. Wadsack, Albert Zündorf

May 2002 **Proceedings of the 24th International Conference on Software Engineering ICSE '02**

**Publisher:** ACM Press

Full text available:  [pdf\(1.81 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

How do you organize an "industrial strength" one semester educational programming project for up to 200 second year students? This paper reports on four years of experience with such projects at the University of Paderborn and the University of Braunschweig. Key properties of our project design are: starting with an existing large application, regular hard deadlines with peer reviews and presentations to a large audience, working in groups, applying project and configuration management tools, a ...

## 31 Performance modeling and analysis: Performance analysis of time-enhanced UML diagrams based on stochastic processes

Christoph Lindemann, Axel Thümmler, Alexander Klemm, Marco Lohmann, Oliver P. Waldhorst

July 2002 **Proceedings of the 3rd international workshop on Software and performance WOSP '02**

**Publisher:** ACM Press

Full text available:  [pdf\(418.80 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

In this paper, we propose extensions to UML state diagrams and activity diagrams in order to allow the association of events with exponentially distributed and deterministic

delays. We present an efficient algorithm for the state space generation out of these UML diagrams that allows a quantitative analysis by means of an underlying stochastic process. We identify a particular stochastic process, the generalized semi-Markov process (GSMP), as the appropriate vehicle on which quantitative analysis ...

**Keywords:** QoS performance modeling, model evaluation techniques, tools and techniques, transient and steady-state analysis of generalized semi-Markov processes

### 32 Process modeling in Web applications



Marco Brambilla, Stefano Ceri, Piero Fraternali, Ioana Manolescu

October 2006 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 15 Issue 4

**Publisher:** ACM Press

Full text available: pdf(1.17 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

While Web applications evolve towards ubiquitous, enterprise-wide or multienterprise information systems, they face new requirements, such as the capability of managing complex processes spanning multiple users and organizations, by interconnecting software provided by different organizations. Significant efforts are currently being invested in application integration, to support the composition of business processes of different companies, so as to create complex, multiparty business scenarios. ...

**Keywords:** Web applications, Web engineering, conceptual modeling, workflows

### 33 Agents, interactions, mobility and systems: Agent factory: generative migration of mobile agents in heterogeneous environments



F. M. T. Brazier, B. J. Overeinder, M. van Steen, N. J. E. Wijnngaards

March 2002 **Proceedings of the 2002 ACM symposium on Applied computing SAC '02**

**Publisher:** ACM Press

Full text available: pdf(522.21 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In most of today's agent systems migration of agents requires homogeneity in the programming language and/or agent platform in which an agent has been designed. In this paper an approach is presented with which heterogeneity is possible: agents can migrate between non-identical platforms, and need not be written in the same language. Instead of migrating the "code" (including data and state) of an agent, a blueprint of an agent's functionality and its state is transferred. An agent factory gener ...

**Keywords:** compositional design, mobile agents, process migration

### 34 Jam---designing a Java extension with mixins



Davide Ancona, Giovanni Lagorio, Elena Zucca

September 2003 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 25 Issue 5

**Publisher:** ACM Press


Full text available: pdf(1.33 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

In this paper we present Jam, an extension of the Java language supporting *mixins*, that is, parametric heir classes. A mixin declaration in Jam is similar to a Java heir class declaration, except that it does not extend a fixed parent class, but simply specifies the set of fields and methods a generic parent should provide. In this way, the same mixin can be instantiated on many parent classes, producing different heirs, thus avoiding code duplication and largely improving modularity and ...

**Keywords:** Java, language design

35 Short papers: Constraint-based livespaces configuration management
 Markus Stumptner, Bruce Thomas
January 2006 **Proceedings of the 11th international conference on Intelligent user interfaces IUI '06****Publisher:** ACM PressFull text available:  pdf(77.08 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


In this paper, we describe use of constraint-based methods for configuring ubiquitous workspaces. A declarative representation allows succinct, easily maintainable definitions of the dependencies inherent in setting up a meeting, and permits the use of general constraint reasoners for various standard tasks such as setting up meeting interfaces, switching between setting for different meetings, and saving and restoring settings. Personalisation techniques can be used for intelligently adapting t ...

**Keywords:** configuration, constraint satisfaction, liveSpaces, ubiquitous workspaces36 Software engineering: applications, practices tools (SE): A framework to simulate
 UML models: moving from a semi-formal to a formal environment

Alessandra Cavarra, Elvinia Riccobene, Patrizia Scandurra

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing SAC '04****Publisher:** ACM PressFull text available:  pdf(626.58 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)


This paper presents a simulation framework for UML models based upon a mapping schema of UML metamodel elements into Abstract State Machines (ASMs). Structural model elements are translated into an ASM vocabulary as collections of domains and functions, whereas the dynamic view is captured by multi-agent ASMs reflecting the behavior modeled by UML state machines. In the toolkit presented, input UML models can be drawn using any UML CASE Tool able to produce the XMI format for diagrams. This textu ...

**Keywords:** Abstract State Machines, UML, UML models simulation, model mapping37 Second international workshop on model driven web engineering (MDWE'06): A UML
 2.0 profile for WebML modeling

Nathalie Moreno, Piero Fraternali, Antonio Vallecillo

July 2006 **Workshop proceedings of the sixth international conference on Web engineering ICWE '06****Publisher:** ACM PressFull text available:  pdf(250.01 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In recent years, we have witnessed how the Web Engineering community considers the use of standard UML notation, techniques and supporting tools for modeling Web systems, including the adaptation of their own modeling languages, representation diagrams and development processes to UML. This interest for being MOF and UML-compliant arises from the increasing need to be able to interoperate with other notations and tools, and to exchange data and models, thus facilitating and improving reuse. WebM ...

**Keywords:** UML, UML profiles, WebML, metamodels38 Model driven security: From UML models to access control infrastructures
 David Basin, Jürgen Doser, Torsten Lodderstedt
January 2006 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 15 Issue 1**Publisher:** ACM PressFull text available:  pdf(968.83 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present a new approach to building secure systems. In our approach, which we call Model Driven Security, designers specify system models along with their security requirements and use tools to automatically generate system architectures from the models, including complete, configured access control infrastructures. Rather than fixing one particular modeling language for this process, we propose a general schema for constructing such languages that combines languages for modeling systems with ...

**Keywords:** Model Driven Architecture, Object Constraint Language, Role-Based Access Control, Unified Modeling Language, metamodeling, security engineering

### 39 Modeling architectural patterns using architectural primitives



Uwe Zdun, Paris Avgeriou

October 2005 **ACM SIGPLAN Notices , Proceedings of the 20th annual ACM SIGPLAN conference on Object oriented programming, systems, languages, and applications OOPSLA '05**, Volume 40 Issue 10

**Publisher:** ACM Press

Full text available: pdf(301.08 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Architectural patterns are a key point in architectural documentation. Regrettably, there is poor support for modeling architectural patterns, because the pattern elements are not directly matched by elements in modeling languages, and, at the same time, patterns support an inherent variability that is hard to model using a single modeling solution. This paper proposes tackling this problem by finding and representing architectural primitives, as the participants in the solutions that patterns c ...

**Keywords:** OCL, UML, architectural documentation, architectural patterns, modeling patterns, software patterns

### 40 Research papers: development with UML: Traffic-aware stress testing of distributed systems based on UML models



Vahid Garousi, Lionel C. Briand, Yvan Labiche

May 2006 **Proceeding of the 28th international conference on Software engineering ICSE '06**

**Publisher:** ACM Press

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A stress test methodology aimed at increasing chances of discovering faults related to network traffic in distributed systems is presented. The technique uses the UML 2.0 model of the distributed system under test, augmented with timing information, and is based on an analysis of the control flow in sequence diagrams. It yields stress test requirements that are made of specific control flow paths along with time values indicating when to trigger them. Different variants of our stress testing tec ...

**Keywords:** UML, distributed systems, model-based testing, network traffic, stress testing

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